

Converting Colors

CIELCh(49, 13.812, 189.232)

Have a look what the booklet for
CIELCh(49, 13.812, 189.232)
contains.

CIELCh(49, 13.583, 190.459)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	21
<i>Color Blindness Simulation</i>	24
<i>CSS Examples</i>	27

Color

CIELCh(49, 13.583, 190.459)

Conversions

Conversions Part 1

Format	Color
Hex	577B78
RGB	87, 123, 120
RGB Percent	34%, 48%, 47%
CMY	0.6583, 0.5171, 0.5288
CMYK	0.29, 0.00, 0.02, 0.52
HSL	175°, 17%, 41%
HSV	175°, 29%, 48%
XYZ	14.4431, 17.5941, 20.4494
YIQ	111.8940, -20.4930, -8.5650

Conversions

Conversions Part 2

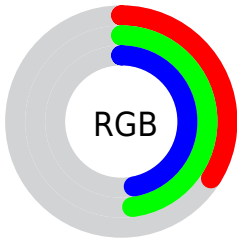
Format	Color
R_{YB}	87, 106, 123
Decimal	5733240
CIE _{Lab}	49.00, -13.36, -2.47
CIE _{LCh}	49, 13.583, 190.459
Y _{xy}	17.5941, 0.2752, 0.3352
Android (android.graphics.Color)	4283923320 (0xFF577B78)
YUV	111.8940, 3.9963, -21.8320
Hunter-Lab	41.9453, -11.9411, 0.4562

Details

The CIELCh color $49, 13.583, 190.459$ is a dark color, and the websafe version is hex 336666 . A complement of this color would be $41, 15.928, 15.245$, and the grayscale version is $47, 0.006, 296.813$.

A 20% lighter version of the original color is $69, 13.803, 189.084$, and $29, 13.517, 191.844$ is the 20% darker color. If you saturate the color by 10%, you get $48, 17.626, 189.731$, and if you desaturate by 10%, it is $50, 9.186, 191.181$.

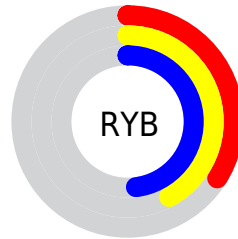
Distribution



Red (34%)

Green (48%)

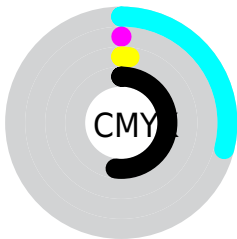
Blue (47%)



Red (34%)

Yellow (42%)

Blue (48%)

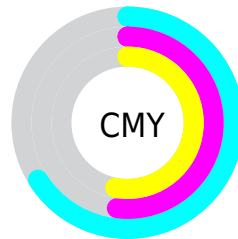


Cyan (29%)

Magenta (0%)

Yellow (2%)

Black (52%)



Cyan (66%)


Magenta (52%)

Yellow (53%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 49, 13.583, 190.459 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.


Similar to the brightness gradients but the following saturation gradients show a change of the CIELCh color 49, 13.583, 190.459 by changing the saturation by 10% instead.


 49, 13.583,
190.459


 49, 13.583,
190.459


 100, 13.583,
190.459


 39, 13.583,
190.459

 69, 13.583,
190.459


 29, 13.583,
190.459

 79, 13.583,
190.459

 19, 13.583,
190.459


 89, 13.583,
190.459

 9, 13.583, 190.459

 99, 13.583,
190.459

 0, 13.583, 190.459

 49, 13.583,

 49, 13.583,

190.459

190.459

■ 48, 17.626,
189.731

■ 50, 9.186, 191.181

■ 48, 21.239,
188.999

■ 51, 4.508, 191.933

■ 52, 0.380, 11.561

■ 47, 24.354,
188.250

■ 53, 5.414, 13.189

■ 47, 26.920,
187.474

■ 54, 10.540, 13.923

■ 55, 15.714, 14.629

■ 47, 28.910,
186.657

■ 57, 20.900, 15.322

■ 46, 30.329,
185.784

■ 58, 26.072, 16.002

■ 60, 31.209, 16.670

■ 46, 31.360,
184.877

■ 46, 31.438,
184.810

Harmonies

Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



49, 13.583, 190.459



41, 15.928, 15.245

Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



49, 13.583, 190.459



49, 13.583, 240.459



49, 13.583, 10.459



49, 13.583, 60.459

Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



49, 13.583, 190.455



65, 5.459, 191.934



48, 24.999, 140.053



34, 3.814, 191.837



84, 0.010, 296.813



35, 0.005, 296.813

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



49, 13.583, 190.455



62, 19.781, 189.976



45, 11.472, 247.691



25, 2.735, 191.947



47, 31.773, 184.794



90, 53.734, 184.220

Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



41, 15.928, 15.245



50, 24.153, 16.145



45, 13.007, 61.070



24, 2.865, 13.120



25, 57.747, 34.793



53, 100.312, 37.423

Previews

White Background



This preview shows how the CIELCh color 49, 13.583, 190.459 looks on a white background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

Black Background



This preview shows how the CIE LCh color 49, 13.583, 190.459 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

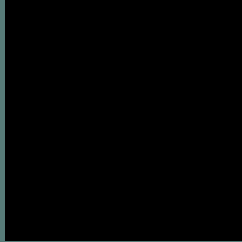
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

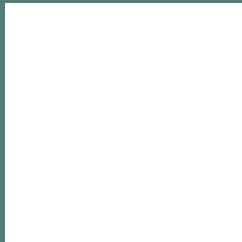
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 49, 13.583, 190.459

Background



This preview shows how black text looks on a background with the CIELCh color 49, 13.583, 190.459.



This preview shows how white text looks on a background with the CIELCh color 49, 13.583, 190.459.

Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

Dichromacy



Original Color

49, 13.583, 190.459

Protanopia

49, 1.358, 353.679

Deuteranopia

49, 6.919, 330.389



Tritanopia
49, 12.420, 226.806

Trichromacy



Original Color
49, 13.583, 190.459

Protanomaly
49, 4.334, 199.007

Deuteranomaly
49, 3.298, 244.852

Tritanomaly
49, 12.293, 212.120

Monochromacy



Original Color
49, 13.583, 190.459

Achromatopsia
47, 0.006, 296.813

Achromatomaly
48, 5.179, 192.328

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 49, 13.583, 190.459 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(87, 123, 120)` looks like.

```
.text, #text, p{  
    color:rgb(87, 123, 120)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(87, 123, 120) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(87, 123, 120) }
```

Border

The CSS property to change the border of an element to CIELCh 49, 13.583, 190.459 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(87, 123, 120) }
```

If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(87, 123, 120) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(87, 123, 120)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(87, 123, 120); -webkit-box-  
shadow:4px 4px 4px 4px rgb(87, 123, 120);  
box-shadow:4px 4px 4px 4px rgb(87, 123,  
120) }
```

Background

The CSS property to change the background color of an element to CIELCh 49, 13.583, 190.459 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(87, 123, 120) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(87, 123,  
120) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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